ART OF GOLD BEATING

DNE OF THE OLDEST HANDICRAFTS IN THE WORLD.

The Way a Little Square of the Velloy Metal Is Expanded Into a Large and Almost Transparent Leaf by the Artisan's Hammers.

The art of the gold heater is one of the oldest handlerafts in the world and among those which have changed least. Much of the decoration of Solomon's temple is believed to have been covered with gold leaf, hammered to the requisite thinness by hand, as it is realist.

is today.

The gold beater receives his material not in the form of the sixty penny-weight ingot in which it is cast, but

which ingot in which it is case, but in the form of a ribbon about an inch wide and twenty-four feet long.

This, ribbon is first cut into 200 squares and placed in the "cutch," which is a pile of square pieces of a peculiar paper, part animal and part vegetable in composition, the prepara-tion of which is a secret. The best cutches are made in London. A square of gold is placed between each two leaves and the whole mass is ready for the first beating.

This in done with an iron hammer

weighing from twelve to seventeen pounds, while the cutch rests upon a granite block which is supported by

grainte block which is supported by a heavy wooden post.

Under the heavy, measured blows of the hammer the sheets of gold begin to stretch or expand until in half or three-quarters of an hour they have reached the edges of the cutch. They are then removed and with a thin strip of bundless as at the support of the cutch. strip of bamboo are cut into quarters, so that the 200 pieces become 800. Next comes the "shoder," a collection of 800 pieces of skin, four inches square, made from the intestines of enttle. As in the cutch, each piece of gold is placed between two leaves of skin, and bands of parchment or vellum are slipped over the whole pile to keep it together.

Another benting, this time with a hammer weighing from eight to ten pounds, now follows. This takes about

an hour, during which the sheets of gold are all the time expanding. The last stage is the "mold," which, like the cutch and the shoder, is composed of alternate leaves of gold and skin, but the mold is about five inches square and made up of gold beater's skin. The preparation of this is a jeal-ously guarded trade secret.

The skin like that in the shoder, is made from the intestines of the ox. It is translucent and not unlike rawhide is translucent and not unlike rawhide in color. Although it will stand configuous beating without breaking, it will tear like a sheet of thin paper. The making of a single mold requires the intestines of 500 bullocks. Between each two beatings the skin is rubbed with baked and pulverized gypsum.

A mold contains 1,000 sheets. After the second beating the workman takes from the shoder a single leaf of gold at a time, handling it with bamboo plachers and, when necessary, smoothing it with a rabbit's foot. With the strip of bamboo he cuts each sheet into quarters way in so, that the original 200 ters again, so that the original 200 have now become 3,200. One shoder, therefore contains more than enough gold to fill three molds.

The final beating in the mold is done with a seven pound hammer and re-quires from three to four hours. By this time the gold lenf should have expanded again to the edge of the skins and should be of the requisite thinness, which is determined by holding it up to the light. If it transmits green rays it is done and will measure about one two-hundred-and-eighty-thousandth of an Inch in thickness.

The hammers used in beating gold are slightly convex on the face. The art of the workman consists in so strik ing that the gold will always be thin-tnest in the center. He must pound with evenness all over the square in order that the sheets of gold may expand without losing their form, but at the same time he must keep the thick-est part near the edges, so that when sheets are finally trimmed to size the thicker portions may fall in the waste, to be reeast. No machinery has ever been devised which will do this successfully.

The tools of the craft are interesting and peculiar. The rabbit's ceedingly soft and just oily enough to prevent the gold from sticking, and the bamboo pliers and cutting slips are the only things with which it is possible to do this delicate work. The Call at office and see us. Phone messages receive prompt attention.

Electric light and power rate 10c per 1,000 watts, subject to our usual are the only things with which it is terms and discounts. gold does not adhere to the fibers of the reed as it does to steel.

The gold beater performs all his work standing. The use of the heavy harmers in such continuous pounding would, one would think, impose most intolerable strain upon the hands and arms. The men say, however, that their arms never ache. The only place where "it eatches them" is in the bend of the knee.

The lack of strain upon the arms is accounted for by the fact that the hammer rebounds. It is an astonishing but by no means a rare thing to se gold beater change hands while the hammer is in the air and without los ing a stroke.-Edward Williston Trentz in Youth's Companion.

Landing That's Color.

In the case of horses where the skin has been abraded by the harness if the galled region is left to itself the hair oil is applied freely to the abrasion liair of a dark or normal color will be produced, thus indicating that the color is ordinarily due to the secretions of the skin sinking days of the secretions of the secretion of the se of the skin sluking down as a sediment to the base of the bair folliele, where port It is absorbed by the shaft of the hair.

"Sometimes," said Uncle Eben, "what passes for a philosopher is simply a man dat kin stand bein' 'Lurt without hollerin'."-Washington Star.

A SWIMMING HORSE

The Proper Way to Ride the Animal In the Water.

A military journal of Pass gives this account of the way a horse should not be rielden and of the way he should be

ridden in swimming a stream;

To begin with, it must not be sup posed that a horse always swims indurally and with ease the moment be is off bis feet in the water. The admainder such circumstances has but one notion—to keep his head out of the water and to lift his shoulders as high as possible.

possible.

In doing this his hind quarters sink. and he finds himself almost standing upon his tail, or at least in a position three-quarters creet.

In such a position, if the rider draws upon the reins or throws his body back in the least, the animal's hint quarters will sink more and more, his body will take a vertical position, and, beating the water uselessly with his forefeet, he will finally sink.

As soon as the horse gets of his fee in the water let the rider grasp a handful of the animal's mane, leasing at the same time well forward upon his shoulders, but without touching the horse's head. The rider's knews should be pressed tightly to the horse's sides; otherwise he is likely to be swept off by the water.

This is the only position which will enable a man to remain in the saddle and the horse to swim at the same

The reins must be held loosely and each well to one side. If the horse is to be guided in the water give me loose rein a little jerk in the direction desired. But it is in the highest degree Important never to pull on the reins.

Hair and Intellect.
"Did you ever notice," asked an observant woman, "how many intellectual people have auburn bair? At the theater the other night I don't remem ber noticing a single reddish head of hair among the hundreds of preovered heads spread out before me. They were the well coifed heads of the aver rge nice woman. The next night I attended a meeting of a very learned so-riety at which there were perhaps 200 or 300 of the brainlest thinkers and educators around town, and without turning my eyes I picked out at least a dozen nuburn haired women in the few seats in front of me. Now, that was more than a coincidence. It argues something for the possessor of au-burn hair, I should think,"

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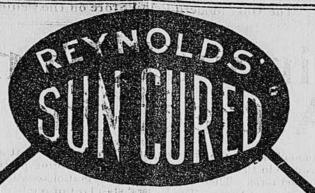
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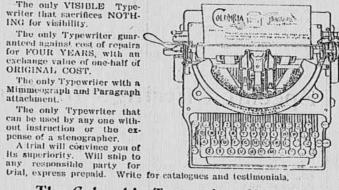
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TRANSPORTATION GUIDE.

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New York. ohlladelphis & Norfolk

Rallroad / Schedule Effective Mon., June 5, 1905.

NORTHBOUND. | *No. 94. | 1No. 82. Lv. Portsmouth... 7:25 a m 5:26 b ca Lv. Norfolk ... 7:45 a m 5:26 b ca Lv. Old Point ... 8:40 a m 7:20 p m Lv. Cape Charles ... 10:55 a m 6:25 p m Ar. Wilmington ... 5:00 p m 4:16 a m Ar. Philadolphia ... 5:44 p m 5:16 a m Ar. New York ... 8:15 p m 5:66 a m

BOUTHBOUND. | *No. 89. | !No. 87.

Lv. New York
(West 23d St.)... 7:55 c. m 8:25 p m
Lv. Philadelphia ... 10:53 a m 11:65 p m
Lv. Wilmington ... 10:53 a m 11:60 p m
Lv. Cape Charles. 4:40 p m 6:43 p m
Lv. Old Point ... 6:35 p m 7:75 a m
Ar. Norfolk ... 8:00 p m 3:45 a m
Ar. Portsmouth ... 8:15 p m 9:05 a m

OTrains 94 and 99 are daily except Sunday. ITrains 82 and 97 are daily.

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hour and 30 minutes to Richmond.
Schodule in Effect June 4, 1905.
LEAVE NEWPORT NEWS:
140 a. m., daily, Local to Richmond.
Connects for Lynchburg, Lexington,
Va., New Castle and Clitton Forge,
except Sunday for Rosney and Esmont. Leaves Fort Monroe, 7:10 a.
m.; Phoebus, 7:13 a. m.; Hampton,
7:18 a. m.

m.; Phoebus, 7:13 a. m.; Hampton, 7:18 a. m.
0:10 a. m., Daily Fast Train to Richmond (stopping only at Williamsburg), arrives Richmond 11:45 a. m., connecting with "St. Louis Special" leaving 2 p. m. with Pullman for Cipcinant, Indianapolis and Chicago; and Pullman service for St. Louis and Louisville. Cafe, Parlor Car, Old Point to Roncoverte Leaves Fort Point to Ronceverte. Monroe, 9:40 a. m.; Hampton, 9:48

Morroe, 9:40 a. m.; Hampton, 5:48 a. m. 125 p. m., Daily Fast Train for Rich-mond (stopping only at Williams-burg), arrives Richmond 7:00 p. m. Connecting with F. F. V., leaving 10:45 p. m., carrying Pullman Sleep-er to Checinnati and Jouisville. Leaves Fort Monroe, 4:55 p. m.; Phoebus, 4:58 p. m., and Hampton, 5:03 p. m.

Fritzenias, 4:58 p. m., and Hampton, 5:03 p. m.
5:40 p. m., Daily, stops at local stations on Peninsula, connects at Richmond with F. P. V. Limited.
TRAINS ARRIVE FROM RICHMOND 9:50 a. m., Daily; 10:30 a. m., daily; 5:30 p. m., daily, and 7:20 p. m. daily.

5:30 p. m., daily, and 7:20 p. m. daily.
Steamer Virginia leaves 7:40 a. m., daily for Norfolk and Portsmouth;
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All business between New York and Newport News transact 2d at Pier & All business between Newport News Norfolk, Smithfield and local points transacted at Pier A, foot of Twenty-fifth streot.

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Leave shipyard for Pine Beach and
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2:45, 4:15, 5:45, 7:45, 9:15, 10:20.

Leave Noriolk for Newport News,
6:20, 7:30, 9:00, 10:30; 12:00, 1:30,
3:00, 4:30, 6:00, 8:00, 9:30, 11:00.

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